



## Photonics IC Layout Engineer (m/f/d)

Sicoya is a technology leader in silicon photonics based interconnect solutions with headquarter in Berlin, Germany. We offer monolithically integrated semiconductor chips and transceivers for next generation data centers. The team consists of highly professional design engineers and managers with many years of experience in bringing state of the art products to the market.

As a **Photonics IC Layout Engineer** at Sicoya, you will work in a highly international environment and dive into a unique challenge, as you are involved in the design and the development of the next generation of optical transceivers. The main task is to realize the layout and floor planning of new chip designs in close cooperation with the electronic IC design group. Furthermore, you will work on the components of the photonic development kit including DRC rule definition, LVS routines and PCell programming. You will be responsible for the modelling of integrated electro-optic silicon-based devices.

Start: asap

Employment: Full time

Experience: 4+ years of experience

### Your tasks:

- Create layouts and floor plans of integrated silicon photonics circuits and devices
- Develop components for photonic development kits, including DRC rules and LVS
- Simulation of photonic integrated circuits on a Silicon Photonics SOI platform
- Define design methodologies and design environments
- Program active and passive building-blocks for O-band- and C-band applications

### Required profile:

- Master's degree in physics, electro-engineering or equivalent, preferred is a Ph.D
- Experience in PIC design flow from specification to tape-out
- Detailed knowledge of chip-level photonic design principles
- Ability to define, specify, and test photonic building blocks, incl. DRC and LVS routines
- Extensive experience with a variety of PIC design tools
- Programming experience in an object-oriented language
- In-depth understanding of FDTD methods, Eigenmode expansion, and TCAD simulations
- Proactive problem-solving skills
- Team player that thrives in a dynamic working environment
- Strong technical and verbal/written communication skills
- Professional working proficiency in English is mandatory and knowledge of German would be an asset

### What we offer:

- High degree of personal responsibility within a flat company hierarchy
- Ambitious internationally expanding team
- Various future carrier opportunities for every career level
- A relaxed and inspiring working environment with lounge area, free drinks and fruits
- Regular team events and team building measures

Are you interested in working with us? Then we may just be waiting to hear from you. Please send us your CV and a motivation letter by email to: [jobs@sicoya.com](mailto:jobs@sicoya.com)

Sicoya is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to gender, race, color, ethnicity, national origin, religion or belief, sexual orientation, disability or age.